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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/501,838	11/29/2004	Shmuel A. Ben-Sasson	24348-501 NATL	6386
30623	7590 10/18/2005		EXAMINER	
	EVIN, COHN, FERRIS,	GUDIBANDE, SATYANARAYAN R		
AND POPEO	O, P.C. ICIAL CENTER		ART UNIT	PAPER NUMBER
BOSTON, MA 02111			1654	
	•		DATE MAIL ED: 10/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summer	10/501,838	BEN-SASSON ET AL.
Office Action Summary	Examiner	Art Unit
	Satyanarayana R. Gudibande	1654
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
<u> </u>	action is non-final.	
3) Since this application is in condition for allowa		osecution as to the merits is
closed in accordance with the practice under E	•	
Disposition of Claims		
4)⊠ Claim(s) <u>1-80</u> is/are pending in the application		
4a) Of the above claim(s) is/are withdraw		·
5) Claim(s) is/are allowed.	witholli consideration.	
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) 1-80 are subject to restriction and/or	election requirement	
•		
Application Papers		
9) The specification is objected to by the Examine		
10) The drawing(s) filed on is/are: a) acc		
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	•
11)☐ The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	e Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	ı)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:	•	
 Certified copies of the priority document 	s have been received.	
Certified copies of the priority document	ts have been received in Applicat	ion No
Copies of the certified copies of the prio	rity documents have been receiv	ed in this National Stage
application from the International Burea		
* See the attached detailed Office action for a list	of the certified copies not receive	ed.
•		
AMonth and and all		
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	, (PTO 412)
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	eate
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)
Paper No(s)/Mail Date	6)	
S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Office A	ction Summary P	art of Paper No./Mail Date 20051005

Application/Control Number: 10/501,838

Art Unit: 1654

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Groups 1-21, claim(s), 1-18, 25-38, 53, 64-75, 77 and 78 (in part) are drawn to 21 peptides SEQ ID NOs: 1-15 and 24-29.

Groups 22-42, claim(s) 19-24 (in part), drawn to method of using 21 peptides SEQ ID NOs: 1-15 and 24-29.

Groups 43-63, claim(s) 39-50 (in part), drawn to 1st method of producing 21 peptides SEQ ID NOs: 1-15 and 24-29.

Groups 64-84, claim(s) 51 (in part), drawn to method of translocating an effector coupled 21 peptides SEQ ID NOs: 1-15 and 24-29 across a biological barrier.

Groups 85-105, claim(s) 52 (in part), drawn to method of oral vaccination by administering 21 peptides SEQ ID NOs: 1-15 and 24-29...

Groups 106-126, claim(s) 54 and 55 (in part), are drawn to method of treating or preventing pathological conditions by administering 21 peptides SEQ ID NOs: 1-15 and 24-29.

Groups 127-147, claim(s).56, 79 and 80 (in part), are drawn to 2nd method of making 21 peptides SEQ ID NOs: 1-15 and 24-29.

Group 148, claim(s) 57-59 are drawn to peptide derived from pathogenic bacteria.

Group 149, claim(s) 60--62 are drawn to peptide derived from non-pathogenic bacteria.

Group 150, claim 63 is drawn to peptide derived from human neurokinin receptor.

Group 151-171, claim 76 (in part) is drawn to 3rd method of making 21 peptides SEQ ID NOs: 1-15 and 24-29.

Claims 1, 14, 25 and 64 link(s) inventions 1-21. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claims 1, 14, 25 and 64. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claims 19-24 link(s) inventions 22-42. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claims 19-24. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a

restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. In re Ziegler, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claims 39-50 link(s) inventions 43-63. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claims 39-50. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claim 51 link(s) inventions 64-84. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 51. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the

continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claim 52 link(s) inventions 85-105. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 52. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claims 54 and 55 link(s) inventions 106-126. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claims 54 and 55. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims

of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claims 56, 79 and 80 link(s) inventions 127-147. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claims 56, 79 and 80. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claim 76 link(s) inventions 151-171. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 76. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are

advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

The inventions are distinct, each from the other because:

Each of the 21 groups corresponds to a peptide sequence or method of making it or using it.

There are 21 groups in each "super group". Each group is drawn to a genus of structurally distinct peptides, or method of making or using the same. The special technical feature of each group is the generic structure. The generic structures all share the technical feature of being "penetrating" peptides. However, this is not deemed to be a special technical feature within the meaning of PCT Rule 13.2 because such peptides are known in the art. Chakrabartty, et al., Biochemistry, 1993, 32, 5560-5565, teaches the peptide (table 1, sequence name yy-ak20, page 5561) that corresponds to the general formula represented by (BX)₄Z(BX)₂ZXB.

In the instant application claims 1, 14, 25 and 64 represent numerous peptide sequences.

Applicants are requested to select one peptide to embody one invention with all the amino acids clearly indicated for the sequence.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satyanarayana R. Gudibande whose telephone number is 571-272-8146. The examiner can normally be reached on M-F 8-4.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

srg

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